

WHAT IS CLAIMED IS:

1. A soundproofing panel comprising an "exciter" wall for putting into contact with a fluid containing a source of noise and a "receiver" wall for putting into contact with a fluid in which the noise is to be attenuated, the panel further comprising at least one intermediate element between said walls and the intermediate element comprises over at least a portion of its outline at least one element providing elastic coupling between the intermediate element and only the receiver wall.
2. A panel according to claim 1, wherein the element(s) is/are situated only over the outline of the intermediate element or over at least a portion of said outline.
3. A panel according to claim 1, wherein the intermediate element is constituted by a rigid or semi-rigid intermediate plate interposed between said layers of sound-absorbing material, the assembly constituted by the intermediate plate and the two layers of sound-absorbing material being sandwiched between said two walls.
4. A panel according to claim 1, wherein at least one flexible element is a suspension stud made of flexible material, in particular of elastomer material.
5. A panel according to claim 4, including a plurality of suspension studs distributed along the periphery of the intermediate sheet.
6. A panel according to claim 3, wherein at least one flexible element is a strip of flexible material, in particular of elastomer material.
7. A panel according to claim 1, including a rigid frame secured to receiver wall and wherein at least one

flexible element is disposed between the frame and the intermediate element.

8. A panel according to claim 7, wherein at least one
5 said flexible element is interposed between the frame and the intermediate element.

9. A panel according to claim 7, wherein at least one
said flexible element is fixed between the inner outline
10 of an opening in the frame and the periphery of the intermediate element.

10. A panel according to claim 3, including a rigid frame
secured to the intermediate sheet, and wherein at least
15 one said flexible element is fixed between the frame and the receiver wall.

11. A panel according to claim 7, wherein at least one
flexible element is a flexible wall made up of one or
20 more segments.

12. A panel according to claim 7, wherein the rigid frame
is a cellular array of the honeycomb type presenting an
array of cells, in particular hexagonal cells, sandwiched
25 between two rigid plates.

13. A panel according to claim 7, wherein the rigid frame
defines an internal cavity which is filled at least in
part with soundproofing material.

30 14. A panel according to claim 7, wherein the rigid frame presents one or more openings, and wherein the panel includes an intermediate element covering at least the outer outline of the rigid frame.

35 15. A panel according to claim 7, wherein the rigid frame presents a plurality of openings, and wherein the panel

comprises a plurality of intermediate elements, each covering one or more openings of the rigid frame.

16. A panel according to claim 14, wherein at least one
5 said opening is filled with sound-absorbing material.